CONCLUSION

If the Examiner feels that a telephone conference would in any way expedite the prosecution of the application, please do not hesitate to call the undersigned at (408) 731-5875.

Respectfully submitted,

Whia R. Block

Leticia R. Block Reg. No.: 50,167

Date: 02-19-03

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Figure 1A

LLAPTGSLFRNCTQDGWSETFPRPNLACGVNVNDSSNEKRSYLLKLKVMYTVGYSSSLVM LLVALGILCAFRRLHCTRNYIHMHLFVSFILRALSNFIKDAVLFSSDDVTYCDAHRGCKL VMVLFXYCIMANYSWLLVEGSTFTHXLAISFFSERKYLQGFVAFGWGSPAIFVALWAIAR HFLEDVGCWDINANASIWWIIRGPVILSILNFILFINILRILMRKLRTQETRGNEVSHYK RLARSTLLLIPLFGIHYIVFAFSPEDAMEIQLFF

Figure 1B

Figure 1C

TACTGCATCATGGCCAACTACTCCTGGCTGCTGGTGGAAGGCTCTACCTTCACACATNTC
CTCGCCATCTCCTTCTTCTCTGAAAGAAAGTACCTCCAGGGATTTGTGGCATTCGGATGG
GGTTCTCCAGCCATTTTTGTTGCTTTGTGGGCTATTGCCAGACACTTTCTGGAAGATGTT
GGGTGCTGGGACATCAATGCCAACGCATCCATCTGGTGGATCATTCGTGGTCCTGTGATC
CTCTCCATCCTGATTAATTTCATCCTTTTCATAAACATTCTAAGAATCCTGATGAGAAAA
CTTAGAACCCAAGAAACAAGAGGAAATGAAGTCAGCCATTATAAGCGCCTGGCCAGGTCC
ACTCTCCTGCTGATCCCCCTCTTTGGCATCCACTACATCGTCTTCGCCTTCTCCCCAGAG
GACGCTATGGAGATCCAGCTGTTTTTT

Figure 1D · ·

TACTGCATCATGGCCAACTACTCCTGGCTGCTGGTGGAAGGCTCTACCTTCACACATNTC
CTCGCCATCTCCTTCTTCTCTGAAAGAAAGTACCTCCAGGGATTTGTGGCATTCGGATGG
GGTTCTCCAGCCATTTTTGTTGCTTTGTGGGCTATTGCCAGACACTTTCTGGAAGATGTT
GGGTGCTGGGACATCAATGCCAACGCATCCATCTGGTGGATCATTCGTGGTCCTGATC
CTCTCCATCCTGATTAATTTCATCCTTTTTCATAAACATTCTAAGAATCCTGATGAGAAAA
CTTAGAACCCAAGAAACAAGAGGAAATGAAGTCAGCCATTATAAGCGCCTGGCCAGGTCC
ACTCTCCTGCTGATCCCCCTCTTTGGCATCCACTACATCGTCTTCGCCTTCTCCCCAGAG
GACGCTATGGAGATCCAGCTGTTTTTT



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Figure 2A

PTFILFSFQPGDKRTKHICVYWEGSEGGHWSTEGCSHVHSNGSYTKCKCFHLSSFAVLVA LAPKDPVLTVITQVGLTISLLCLFLAILTFLLCRPIQNTSTSLHLELSLCLFLAHLLFLT GINRTEPELCSIIAGLLHFLYLACFTWMLLEGLHLFLTVRNLKVANYTSTGRFKKRFMYP VGYGIPAVIIAVSAIVGPQNYGTFTHCWLKLDKGFIWSFMGPVAVIILNLVFYFQVLWIL RSKLSSLNKEVSTIQDTRVMTFKAISQLFILGCSWGLGFFMVEEVGKTIGSIIAYSFTII NTLQGVLLFVVHCLLNRQVR

Figure 2B

CCCACTTTCATACTATTCTCTTTCCAGCCTGGTGACAAGAGAAAACATATCTGTGTC TACTGGGAGGGATCAGAGGGAGGCCACTGGTCCACGGAGGGCTGCTCTCATGTGCACAGC AACGGTTCTTACACCAAATGCAAGTGCTTCCATCTGTCCAGCTTTGCCGTCCTCGTGGCT CTTGCCCCCAAGGAGGACCCTGTGCTGACCGTGATCACCCAGGTGGGGCTGACCATCTCT CTGCTGTGCCTCTTCCTGGCCATCCTCACCTTCCTCCTGTGCCGGCCCATCCAGAACACC AGCACCTCCCTCCATCTAGAGCTCTCCCTCTGCCTCTTCCTGGCCCACCTCCTGTTCCTG ACGGGCATCAACAGAACTGAGCCTGAGGTGCTGTGCTCCATCATTGCAGGGCTGCTGCAC TTCCTCTACCTGGCTTGCTTCACCTGGATGCTCCTGGAAGGGCTGCACCTCTTCCTCACC GTCAGGAACCTCAAGGTGGCCAACTACACCAGCACGGGCAGATTCAAGAAGAGGTTCATG TACCCTGTAGGCTACGGGATCCCAGCTGTGATTATTGCTGTGTCAGCAATAGTTGGACCC CAGAATTATGGAACATTTACTCACTGTTGGCTCAAGCTTGATAAAGGATTCATCTGGAGC TTCATGGGGCCAGTAGCAGTCATTATCTTGATAAACCTGGTGTTCTACTTCCAAGTTCTG TGGATTTTGAGAAGCAAACTTTCCTCCCTCAATAAAGAAGTTTCCACCATTCAGGACACC AGAGTCATGACATTTAAAGCCATTTCTCAGCTATTTATCCTGGGCTGTTCTTGGGGCCCTT ACCATCATCAACACCCTTCAGGGAGTGTTGCTCTTTGTGGTACACTGTCTCCTTAATCGC CAGGTAAGG





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Figure 3A

QHSDAVHDLLLDVITWVGILLSLVCLLICIFTFCFFRGLQSDRNTIHKNLCISLFVAELL FLIGINRTDQPACAVFAALLHFFFLAAFTWMFLEGVQLYIMLVEVFESEHSRRKYFYLVG YGMPALIVAVSAAVDYRSYGTDKVCWLRLDTYFIWSFIGPATLIIMNVIFLGIALYKMFH HTAILKPESGCLDNIKLKINIPIIKSIYIYMYICMCV

Figure 3B





Sequence Name:

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Figure 4A

GNVAVAFVYYKSIGPLLSSSDNFLLKPQNYDNSEEEERVISSVISVSMSSNPPTLYELEK ITFTLSHRKTDRYRSLCAFWNYSPDTMNGSWSSEGCELTYSNETHTSCRCNHLTHFAILM SSGPSIIKDYNILTRITQLGIIISLICLAICIFTFWFFSEIQSTRTTIHKNLCCSLFLAE LVFLVGINTNTNKFCSIIAGLLHYFFLAAFAWMCIEGIHLYLIVVGVIYNKGFLHKNFYI FGYLSPAVVVGFSAALGYRYYGTTKVCWLSTENNFIWSFIGPACLIILVCIYKIVITIQK SDDH

Figure 4B

GGCAATGTTGCAGTTGCATTTGTATATTATAAGAGTATTGGTCCTTTGCTTTCATCATCT GACAACTTCTTATTGAAACCTCAAAATTATGATAATTCTGAAGAGGGGGAAAGAGTCATA ATAACATTTACATTAAGTCATCGAAAGGTCACAGATAGGTATAGGAGTCTATGTGCATTT TGGAATTACTCACCTGATACCATGAATGGCAGCTGGTCTTCAGAGGGCTGTGAGCTGACA TACTCAAATGAGACCCACACCTCATGCCGCTGTAATCACCTGACACATTTTGCAATTTTG ATGTCCTCTGGTCCTTCCATTGGTATTAAAGATTATAATATTCTTACAAGGATCACTCAA CTAGGAATAATTATTCACTGATTTGTCTTGCCATATGCATTTTTACCTTCTGGTTCTTC AGTGAAATTCAAAGCACCAGGACAACAATTCACAAAAATCTTTGCTGTAGCCTATTTCTT GCTGAACTTGTTTTCTTGTTGGGATCAATACAAATACTAATAAGCTCTTCTGTTCAATC ATTGCCGGACTGCTACACTACTTCTTTTTAGCTGCTTTTTGCATGGATGTGCATTGAAGGC ATACATCTCTATCTCATTGTTGTGGGTGTCATCTACAACAAGGGATTTTTGCACAAGAAT TTTTATATCTTTGGCTATCTAAGCCCAGCCGTGGTAGTTGGATTTTCGGCAGCACTAGGA TACAGATATTATGGCACAACCAAAGTATGTTGGCTTAGCACCGAAAACAACTTTATTTGG ATTCAAAAAAGTGATGATCAT





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Figure 5A

GAWATTGCSVAALYLDSTACFCNHSTSFAILLQIYEVQGPEEESLLRTLSFVGCGVSFCA LTTTFLLFLVAGVPKSERTTVHKNLTFSLASAEGFLMTSEWAKANEACVAVTVAMHFLFL VAFSWMLVEGLLLWRKVVAVSMHPGPGMRLYHATGWGVPVGIVAVTLAMLPHDYVAPGHC WLNVHTNAIWAFVGPVLFVLTVS

Figure 5B : :

GGTGCCTGGGCCACCACAGGCTGCTCCGTGGCTGCCCTGTACCTGGACTCCACCGCCTGC
TTCTGCAACCACAGCACCAGCTTTGCCATCCTGCTGCAAATCTATGAAGTACAGAGAGGC
CCTGAGGAGGAGTCGCTGAGGACTCTGTCATTTGTGGGCTGTGGCGTGTCCTTCTGC
GCCCTCACCACCACCTTCTTGCTCTTCCTGGTGGCCGGGGTCCCCAAGTCAGAGCGAACC
ACAGTCCACAAGAACCTCACCTTCTCCCTGGCCTCTGCCGAGGGCTTCCTCATGACCAGC
GAGTGGGCCAAGGCCAATGAGGTGGCATGTGTGGCTGTCACAGTCGCAATGCACTTCCTC
TTTCTGGTGGCATTCTCCTGGATGCTGGAGGGGCTGCTGCTGTGGAGGAAGGTGTA
GCTGTGAGCATGCACCCGGGCCCAGGCATGCGCCTCACCACGCCACAGGCTGGGGCGTG
CCTGTGGGCATCGTGGGGGTCACCCTGGCCATGCTCCCCCATGACTACGTGGCCCCCGGA
CATTGCTGGCTCAATGTGCACACAAATGCCATCTGGGCCTTCGTGGGGCCTGTGCTCTTC
GTGCTGACTGTGAGC





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Figure 6A

MKSPRRTTLCLMFIVIYSSKAALNWNYESTIHPLLHEHEPAGEEALRQKRAVATKSPTAE EYTVN: IEISFENASFLDPIKAYLNSLSFPIHGNNTDQITDILSINVTTVCRPAGNEIWCS CETGYGWPRERCLHNLICQERDVFLPGHHCSCLKELPPNGPFCLLQEDVTLNMRVRLNVG FQEDLMNTSSALYRSYKTDLETARKGYGILPGFKGVTVTGFKSGSVVVTYEVKTTPPSLE LIHKANEQVVQSLNQTYKMDYNSFQAVTINESNFFVTPEIIFEGDTVSLVCEKEVLSSNV SWRYEEQQLEIQNSSRFSIYTALFNNMTSVSKLTIHNITPGDAGEYVCKLILDIFEYECK KKI DVMPIQILANEEMKVMCDNNPVSLNCCSQGNVNWSKVEWKQEGKINI PGTPETDI DS SCSRYTLKADGTQCPSGSSGTTVIYTCEFISAYGARGSANIKVTFISVANLTITPDPISV SEGQNFSIKCISDVSNYDEVYWNTSAGIKIYQRFYTTRRYLDGAESVLTVKTSTREWNGT YHCIFRYKNSYSIATKDVIVHPLPLKLNIMVDPLEATVSCSGSHHIKCCIEEDGDYKVTF HTGSSSLFAAKEVNKKQVCYKHNFNASSVSWCSKTVDVCCHFTNAANNSVWSPSMKLNLV PGENITCQDPVIGVGEFGKVIQKLCRFSNVPSSPESPIGGTITYKCVGSQWEEKRNDCIS APINSLLQMAKLIKSPSQDEMLPTYLKDLSISIDKAEHEISSSPGSLGAIINILDLLSTV PTQVIISEMMTVLSTVIIVILGKPVLNTWKVLQQQWTNQSSQLLHSVERFSQALQSGDSPPL SFSQTNVQMSSMVIKSSHPETYQQRFVFPYFDLWGNVVIDKSYLENLQSDSSIVTMAFPT LOAILAODIOENNFAESLVMTTTVSHNTTMPFRISMTFKNNSPSGGETKCVFWNFRLANN TGGWDSSGCYVEEGDGDNVTCICDHLTSFSILMSPDSPDPSSLLGILLDIISYVGVGFSI LSLAACLVVEAVVWKSVTKNRTSYMRHTCIVNIAASLLVANTWFIVVAAIQDNRYILCKT ACVAATFFIHFFYLSVFFWMLTLGLMLFYRLVFILHETSRSTQKAIAFCLGYGCPLAISV ITLGATQPREVYTRKNVCWLNWEDTKALLAFAIPALIIVVVNITITIVVITKILRPSIGD KPCKQEKSSLFQISKSIGVLTPLLGLTWGFGLTTVFPGTNLVFHIIFAILNVFQLFILLF GCLWDLKQEALLNKFSLSRWSSQHSKTSLGSSTPVFSMSSPISRRFNNLFGKTGTYNVST PEATSSSLENSSSASSLLN

Figure 6B

ATGAAATCCCCAAGGAGAACCACTTTGTGCCTCATGTTTATTGTGATTTATTCTTCCAAA GCTGCACTGAACTGGAATTACGAGTCTACTATTCATCCTTTGAGTCTTCATGAACATGAA CCAGCTGGTGAAGAGGCACTGAGGCAAAAACGAGCCGTTGCCACAAAAAGTCCTACGGCT AAAGCCTACTTGAACAGCCTCAGTTTTCCAATTCATGGGAATAACACTGACCAAATTACC GACATTTTGAGCATAAATGTGACAACAGTCTGCAGACCTGCTGGAAATGAAATCTGGTGC TCCTGCGAGACAGGTTATGGGTGGCCTCGGGAAAGGTGTCTTCACAATCTCATTTGTCAA GAGCGTGACGTCTTCCTCCCAGGGCACCATTGCAGTTGCCTTAAAGAACTGCCTCCCAAT GGACCTTTTTGCCTGCTTCAGGAAGATGTTACCCTGAACATGAGAGTCAGACTAAATGTA GGCTTTCAAGAAGACCTCATGAACACTTCCTCCGCCCTCTATAGGTCCTACAAGACCGAC TTGGAAACAGCGTTCCGGAAGGGTTACGGAATTTTACCAGGCTTCAAGGGCGTGACTGTG ACAGGGTTCAAGTCTGGAAGTGTGGTTGTGACATATGAAGTCAAGACTACACCACCATCA CTTGAGTTAATACATAAAGCCAATGAACAAGTTGTACAGAGCCTCAATCAGACCTACAAA ATGGACTACAACTCCTTTCAAGCAGTTACTATCAATGAAAGCAATTTCTTTGTCACACCA GAAATCATCTTTGAAGGGGACACAGTCAGTCTGGTGTGTGAAAAGGAAGTTTTGTCCTCC AATGTGTCTTGGCGCTATGAAGAACAGCAGTTGGAAATCCAGAACAGCAGCAGATTCTCG ATTTACACCGCACTTTTCAACAACATGACTTCGGTGTCCAAGCTCACCATCCACAACATC ACTCCAGGTGATGCAGGTGAATATGTTTGCAAACTGATATTAGACATTTTTTGAATATGAG TGCAAGAAGAAATAGATGTTATGCCCATCCAAATTTTGGCAAATGAAGAAATGAAGGTG ATGTGCGACAACAATCCTGTATCTTTGAACTGCTGCAGTCAGGGTAATGTTAATTGGAGC GATTCTAGCTGCAGCAGATACACCCTCAAGGCTGATGGAACCCAGTGCCCAAGCGGGTCG

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TCTGGAACAACAGTCATCTACACTTGTGAGTTCATCAGTGCCTATGGAGCCAGAGGCAGT GCAAACATAAAAGTGACATTCATCTCTGTGGCCAATCTAACAATAACCCCGGACCCAATT TCTGTTTCTGAGGGACAAACTTTTCTATAAAATGCATCAGTGATGTGAGTAACTATGAT GAGGTTTATTGGAACACTTCTGCTGGAATTAAAATATACCAAAGATTTTATACCACGAGG AGGTATCTTGATGGAGCAGAATCAGTACTGACAGTCAAGACCTCGACCAGGGAGTGGAAT GGAACCTATCACTGCATATTTAGATATAAGAATTCATACAGTATTGCAACCAAAGACGTC ATTGTTCACCCGCTGCCTCTAAAGCTGAACATCATGGTTGATCCTTTGGAAGCTACTGTT TCATGCAGTGGTTCCCATCACATCAAGTGCTGCATAGAGGAGGATGGAGACTACAAAGTT ACTTTCCATACGGGTTCCTCATCCCTTCCTGCTGCAAAAGAAGTTAACAAAAAACAAGTG TGCTACAAACACAATTTCAATGCAAGCTCAGTTTCCTGGTGTTCAAAAACTGTTGATGTG TGTTGTCACTTTACCAATGCTGCTAATAATTCAGTCTGGAGCCCATCTATGAAGCTGAAT CTGGTTCCTGGGGAAAACATCACATGCCAGGATCCCGTAATAGGTGTCGGAGAGCCGGGG AAAGTCATCCAGAAGCTATGCCGGTTCTCAAACGTTCCCAGCAGCCCTGAGAGTCCCATT GGCGGGACCATCACTTACAAATGTGTAGGCTCCCAGTGGGAGGAGAAAAAAATGACTGC ATCTCTGCCCCAATAAACAGTCTGCTCCAGATGGCTAAGGCTTTGATCAAGAGCCCCTCT CAGGATGAGATGCTCCCTACATACCTGAAGGATCTTTCTATTAGCATAGACAAAGCGGAA CATGAAATCAGCTCTTCTCCTGGGAGTCTGGGAGCCATTATTAACATCCTTGATCTGCTC TCAACAGTTCCAACCCAAGTAAATTCAGAAATGATGACGCACGTGCTCTACGGTTAAT GTCATCCTTGGCAAGCCCGTCTTGAACACCTGGAAGGTTTTACAACAGCAATGGACCAAT CAGAGTTCACAGCTACTACATTCAGTGGAAAGATTTTCCCAAGCATTACAGTCGGGAGAT AGCCCTCCTTTGTCCTTCTCCCAAACTAATGTGCAGATGAGCAGCATGGTAATCAAGTCC AGCCACCCAGAAACCTATCAACAGAGGTTTGTTTTCCCATACTTTGACCTCTGGGGCAAT GTGGTCATTGACAAGAGCTATCTAGAAAACTTGCAGTCGGATTCGTCTATTGTCACCATG GCTTTCCCAACTCTCCAAGCCATCCTTGCCCAGGATATCCAGGAAAATAACTTTGCAGAG AGCTTAGTGATGACAACCACTGTCAGCCACAATACAACTATGCCATTCAGGATTTCAATG ACTTTTAAGAACAATAGCCCTTCAGGCGGCGAAACGAAGTGTGTCTTCTGGAACTTCAGG CTTGCCAACACACAGGGGGGTGGGACAGCAGTGGGTGCTATGTAGAAGAAGGTGATGGG GACAATGTCACCTGTATCTGTGACCACCTAACATCATTCTCCATCCTCATGTCCCCTGAC TCCCCAGATCCTAGTTCTCCTGGGAATACTCCTGGATATTATTTCTTATGTTGGGGTG GGCTTTTCCATCTTGAGCTTGGCAGCCTGTCTAGTTGTGGAAGCTGTGGTGGGAAATCG GTGACCAAGAACCGGACTTCTTATATGCGCCACACCTGCATAGTGAATATCGCTGCCTCC CTTCTGGTCGCCAACACCTGGTTCATTGTGGTCGCTGCCATCCAGGACAATCGCTACATA CTCTGCAAGACAGCCTGTGTGGCTGCCACCTTCTTCATCCACTTCTTCTACCTCAGCGTC TTCTTCTGGATGCTGACACTGGGCCTCATGCTGTTCTATCGCCTGGTTTTCATTCTGCAT GAAACAAGCAGTCCACTCAGAAAGCCATTGCCTTCTGTCTTGGCTATGGCTGCCCACTT GCCATCTCGGTCATCACGCTGGGAGCCACCCAGCCCCGGGAAGTCTATACGAGGAAGAAT GTCTGTTGGCTCAACTGGGAGGACACCAAGGCCCTGCTGGCTTTCGCCATCCCAGCACTG ATCATTGTGGTGGTGAACATAACCATCACTATTGTGGTCATCACCAAGATCCTGAGGCCT TCCATTGGAGACAAGCCATGCAAGCAGGAGAAGAGCAGCCTGTTTCAGATCAGCAAGAGC ATTGGGGTCCTCACACCACTCTTGGGCCTCACTTGGGGTTTTGGTCTCACCACTGTGTTC CCAGGGACCAACCTTGTGTTCCATATCATATTTGCCATCCTCAATGTCTTCCAGGGATTA TTCATTTTACTCTTTGGATGCCTCTGGGATCTGAAGGTACAGGAAGCTTTGCTGAATAAG TTTTCATTGTCGAGATGGTCTTCACAGCACTCAAAGTCAACATCCCTGGGTTCATCCACA GGAACGTATAATGTTTCCACCCCAGAAGCAACCAGCTCATCCCTGGAAAACTCATCCAGT GCTTCTTCGTTGCTCAAC





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Figure 7A

ILNSESISNWTFIRDRNSSYILLHSVNSFARRLFIDNIPVDISDVFIHTMGTTISGDNIG KNFTFSMRINDTSNEVTGRVLISRDELRKVPSPSQVISIAFPTIGAILEASLLENVTVNG LVLSAILPKELKRISLIFEKISKSEERRTQCVGWHSVENRWDQQACKMIQENSQQAVCKC P.PSKLFTSFSILMSPHILESLILTYITYVGLGISICSLILCLSIEVLVWSQVTKTEITYL F.HVCIVNIAATLLMADVWFIVASFLSGPITHHKGCVAATFFVHFFYLSVFFWMLAKALLI LYGIMIVFHTLPKSVLVASLFSVGYGCPLAIAAITVAATEPGKGYLRPEICWLNWDMTKA LLAFVIPALAIVVVNLITVTLVIVKTQRAAIGNSMFQEVRAIVRISKNIAILTPLLGLTW GFGVATVIDDRSLAFHIIFSLLNAFQFFILVFGTILDPKV

Figure 7B

ATTCTTAACAGCAAAAGCATCTCCAACTGGACTTTCATTCGTGACAGAAACAGCAGCTAT ATCCTGCTACATTCAGTCAACTCCTTTGCAAGAAGGCTATTCATAGATAACATCCCTGTT GACATATCAGATGTCTTCATTCATACTATGGGCACCACCATATCTGGAGATAACATTGGA AAAAATTTCACTTTTCTATGAGAATTAATGACACCAGCAATGAAGTCACTGGGAAGAGTG TTGATCAGCAGAGATGAACTTCGGAAGGTGCCTTCCCCTTCTCAGGTCATCAGCATTGCA TTTCCAACTATTGGGGCTATTTTGGAAGCCAGTCTTTTGGAAAATGTTACTGTAAATGGG CTTGTCCTGTCTGCCATTTTGCCCAAGGAACTTAAAAGAATCTCACTGATTTTTGAAAAG TGGGACCAGCAGGCCTGCAAAATGATTCAAGAAAACTCCCAGCAAGCTGTTTGCAAATGT AGGCCAAGCAAATTGTTTACCTCTTTCTCAATTCTTATGTCACCTCACATCTTAGAGAGT CTGATTCTGACTTACATCACATATGTAGGCCTGGGCATTTCTATTTGCAGCCTGATCCTT TGCTTGTCCATTGAGGTCCTAGTCTGGAGCCAAGTGACAAAGACAGAGATCACCTATTTA CGCCATGTGTGCATTGTTAACATTGCAGCCACTTTGCTGATGGCAGATGTGTGGTTCATT GTGGCTTCCTTTCTTAGTGGCCCAATAACACACCACAAGGGATGTGTGGCAGCCACATTT TTTGTTCATTTCTTTTACCTTTCTGTATTTTTCTGGATGCTTGCCAAGGCACTCCTTATC TTTTCAGTGGGCTATGGATGCCCTTTGGCCATTGCTGCCATCACTGTTGCTGCCACTGAA CCTGGCAAAGGCTATCTACGACCTGAGATCTGCTGGCTCAACTGGGACATGACCAAAGCC CTCCTGGCCTTCGTGATCCCAGCTTTGGCCATCGTGGTAGTAAACCTGATCACAGTCACA CTGGTGATTGTCAAGACCCAGCGAGCTGCCATTGGCAATTCCATGTTCCAGGAAGTGAGA GCCATTGTGAGAATCAGCAAGAACATCGCCATCCTCACACCACTTCTGGGACTGACCTGG GGATTTGGAGTAGCCACTGTCATCGATGACAGATCCCTGGCCTTCCACATTATCTTCTCC CTGCTCAATGCATTCCAGGGTTTCTTCATCCTAGTGTTTGGAACCATCCTGGATCCAAAG GTA





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Figure 8A

GTTGDWSSEGCSTEVRPEGTVCCCDHLTFFALLLPTLDQSTVHILTRISQAGCGVSMIFL AFTIILYAFLRLSRERFKSEDAPKIHVALGGSLFLLNLAFLVNVGSGSKGSDAACWARGA VFHYFLLCAFTWMGLEAFHLYLLAVRVFNTYFGHYFLKLSLVGWGLPALMVIGTGSANSY GLYTIRDRENRTSLELCWFREGTTMYALYITVHGYFLITFLFGMVVLALVVWKIFTLSRA TAVKERGKNRKKVLTLLGLSSLVGVTWGLAIFTPLGLSTVYIFALFNSLQVDFYILIFY

Figure 8B





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Figure 9A

NHILDTAAISNWAFIPNKNASSDLLQSVNLFARQLHIHNNSENIVNELFIQTKGFHINHN
TSEKSLNFSMSMNNTTEDILGMVQIPRQELRKLWPNASQAISIAFPTLGAILREAHLQNV
SLPRQVNGLVLSVVLPERLQEIILTFEKINKTRNARAQCVGWHSKKRRWDEKACQMMLDI
RNEVKCRCNYTSVVMSFSILMSSKSMTDKVLDYITCIGLSVSILSLVLCLIIEATVWSRV
VVTEISYMRHVCIVNIAVSLLTANVWFIIGSHFNIKAQDYNMCVAVTFFSHFFYLSLFFW
MLFKALLIIYGILVIFRRMMKSRMMVIGFAIGYGCPLIIAVTTVAITEPEKGYIRPEACW
LNWDNTKALXAFAIPAFVIVAVNLIVVLVVAVNTQRPSIGSSKSQDVVIIMRISKNVAIL
TPLLGLTWGFGIATLIEGTSLTFHIIFALLNAFQFFILLFGTIMDHKV

Figure 9B

AACCACATCCTCGACACAGCAGCCATTTCAAACTGGGCTTTCATTCCCAACAAAAATGCC AGCTCGGATTTGTTGCAGTCAGTGAATTTGTTTGCCAGACAACTCCACATCCACAATAAT TCTGAGAACATTGTGAATGAACTCTTCATTCAGACAAAAGGGTTTCACATCAACCATAAT ACCTCAGAGAAAAGCCTCAATTTCTCCATGAGCATGAACAATACCACAGAAGATATCTTA GGAATGGTACAGATTCCCAGGCAAGAGCTAAGGAAGCTGTGGCCAAATGCATCCCAAGCC ATTAGCATAGCTTTCCCAACCTTGGGGGCTATCCTGAGAGAAGCCCACTTGCAAAATGTG AGTCTTCCCAGACAGGTAAATGGTCTGGTGCTATCAGTGGTTTTACCAGAAAGGTTGCAA GAAATCATACTCACCTTCGAAAAGATCAATAAAACCCGCAATGCCAGAGCCCAGTGTGTT GGCTGGCACTCCAAGAAAGGAGATGGGATGAGAAAGCGTGCCAAATGATGTTGGATATC AGGAACGAAGTGAAATGCCGCTGTAACTACACCAGTGTGGTGATGTCTTTTTCCATTCTC ATGTCCTCCAAATCGATGACCGACAAAGTTCTGGACTACATCACCTGCATTGGGCTCAGC GTCTCAATCCTAAGCTTGGTTCTTTGCCTGATCATTGAAGCCACAGTGTGGTCCCGGGTG GTTGTGACGGAGATATCATACATGCGTCACGTGTGCATCGTGAATATAGCAGTGTCCCTT CTGACTGCCAATGTGTGTTTATCATAGGCTCTCACTTTAACATTAAGGCCCAGGACTAC ATGCTCTTCAAAGCATTGCTCATCATTTATGGAATATTGGTCATTTTCCGTAGGATGATG AAGTCCCGAATGATGGTCATTGGCTTTGCCATTGGCTATGGGTGCCCATTGATCATTGCT GTCACTACAGTTGCTATCACAGAGCCAGAGAAAGGCTACATAAGACCTGAGGCCTGTTGG CTTAACTGGGACAATACCAAAGCCCTTTAAGCATTTGCCATCCCGGCGTTCGTCATTGTG GCTGTAAATCTGATTGTGGTTTTGGTTGTTGCTGTCAACACTCAGAGGCCCTCTATTGGC AGTTCCAAGTCTCAGGATGTGGTCATAATTATGAGGATCAGCAAAAATGTTGCCATCCTC ACTCCACTGCTGGGACTGACCTGGGGTTTTGGAATAGCCACTCTCATAGAAGGCACTTCC TTGACGTTCCATATATTTTTGCCTTGCTCAATGCTTTCCAGGGTTTTTTCATCCTGCTG TTTGGAACCATTATGGATCACAAGGTA

